

# **GAS FACTS**

## **2006 DATA**

- ENERGY RESERVES ■ NATURAL GAS SUPPLY
- END-USERS ■ SALES ■ TRANSPORTATION VOLUMES
- DISTRIBUTION AND TRANSMISSION
- FINANCE ■ PERSONNEL DATA
- UNDERGROUND STORAGE
- ENERGY CONSUMPTION
- REVENUES ■ PRICES
- HOUSING DATA
- GLOSSARY
- INDEX

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# **GAS FACTS**

## **2006 DATA**

Unless otherwise noted, material presented in this volume is based on data collected from individual utilities by the Department of Statistics of the American Gas Association. It may be excerpted without charge, but credit to the source is requested.

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# eGUS

The underlying data for many of the tables in Gas Facts can be accessed by AGA members via eGUS, the internet browser based version of the Gas Utilities Statistics system, located at [www.aga.org/eGUS](http://www.aga.org/eGUS). Simply obtain your username and password through the AGA website ([www.aga.org](http://www.aga.org)) and enter them when prompted by the eGUS site. The eGUS User Manual and an e-mail address for additional help is located in the Help & FAQ Section.

If AGA members need further information or assistance with the eGUS system, please contact Mr. Paul Pierson, Manager Statistical Services, (202) 824-7133 or [ppierson@aga.org](mailto:ppierson@aga.org).

AGA members and non-members can request queries of the data for a nominal fee. If you would like information on the type of data available or on the cost of running a query, please contact Mr. Paul Pierson, Manager, Statistics, (202) 824-7133, [ppierson@aga.org](mailto:ppierson@aga.org).

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# INTRODUCTION

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## GENERAL

The American Gas Association assumed its present status as a gas utility industry trade association in 1918, after a merger of two predecessor organizations. Today it renders assistance to the gas utility industry and provides an advocacy platform for local distribution companies, so that the industry may serve its customers more efficiently. The Association recognizes the need for factual information regarding the gas industry for the use, not only of industry organizations, but also interested outside publics. Its statistical efforts are a vital part of this function, and the publication of *Gas Facts* is one result of these efforts.

This publication contains detailed statistics for 2006 and summary statistics for prior years for the gas utility industry which by definition, consists of the companies engaged in natural gas distribution and transmission. The publication also contains relevant data on the gas producing segment of the industry. Gas volumes are expressed in millions of cubic feet (at 14.73 psi and 60°F unless otherwise noted) and in British thermal units (Btu) to permit direct comparison with other energy data. A conversion table is included as Appendix B. Throughout the publication totals may not add due to independent rounding.

The user should be aware that there has developed a large transportation market which directly affects gas utility sales quantities, revenues and number of customers. Although total pipeline throughput may remain the same, as transportation volumes to end-users increase, gas utility sales quantities to end-users will decrease.

Data presented in *Gas Facts*, broken down by company type, are not necessarily comparable from year to year. Acquisitions, mergers and corporate reorganizations continue to cause the number of companies in any given category to vary from year to year. Some of these changes are significant and can cause a dramatic shift in the data reported for a specific category from previous years.

In addition, data and resulting estimates are attributed to utility industry segments in *Gas Facts* as distribution, transmission or integrated based not only on company operating revenues (see glossary), but also on how the company has submitted information in the *Uniform Statistical Report* (USR). For example, if a company under one corporate name submits combined data indicating qualifying revenues for distribution and transmission activities, then it is placed in the integrated category. However, if a large company submits data for distribution companies separate from transmission companies, there is no effort to recombine the data to produce an integrated result. Distribution data in that case is attributed to the distribution segment and transmission data to the transmission segment.

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## SOURCES OF INFORMATION

Most of the information contained in this volume is developed from data forms contained in the *Uniform Statistical Report* and other sources such as the Energy Information Administration (EIA) and the Federal Energy Regulatory Commission (FERC). Tables presented in *Gas Facts* use data primarily from distribution companies submitting a *Uniform Statistical Report* (USR) and estimates for those companies not reporting based on recent historical experience.

Estimates of proved reserves of natural gas are taken from the U.S. Department of Energy report *U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves*. Data for gas spaceheating customers were taken from the *AGA Residential Natural Gas Market Survey*. Changes in the quantity and format of data reported to AGA, the Energy Information Administration, the Federal Energy Regulatory Commission and others have influenced the quality and type of tables that can be constructed from the available sources. As a result, tables in this edition have been modified or eliminated compared with previous *Gas Facts* editions based on judgements regarding sample size and data quality.

## ACKNOWLEDGEMENTS

Our thanks go to the companies participating in the *Uniform Statistical Report* information gathering effort. Their cooperation and support are the essential elements that have made this publication a primary source of gas utility industry data and an important industry reference. The cooperation of the public and governmental agencies credited in tables is also greatly appreciated.

Key contributions to this publication have been made by the Manager, Statistical Services, Paul Pierson; Manager, Gas Transportation Programs, Mariam Arnaout; Statistical Consultant, Kelly Hopkins; and Policy Analysis Senior Staff Associate, Lucy Castañeda-Land.



# SECTION 1

## 2006 IN REVIEW

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### **Highlights from the 2007 edition of *Gas Facts*:**

#### Supply:

- Gas well completions in 2006 increased 5.5 percent compared with 2005.
- Estimated working gas capacity in underground storage, as of June 2006, was 3,982 Bcf, with a total deliverability of 83,540 MMcf per day.
- The United States imported 3.6 trillion cubic feet of natural gas in 2006, primarily from Canada.

#### Delivery:

- The U.S. natural gas industry had 1.53 million miles of pipeline — including distribution, transmission, and gathering lines — in place in 2006.

#### Sales:

- Gas utility sales decreased 0.9 percent in 2006 to 8,222 trillion Btus.
- Residential sales decreased 8.8 percent from 2005 levels.
- Commercial sales decreased 9.5 percent.
- Industrial sales decreased 4.7 percent.
- Electric Generation sales decreased 0.6 percent.

#### Prices:

- The average retail natural gas price increased 2.1 percent in 2006 compared to 2005 prices.
- The average residential price increased 6.3 percent.
- Average commercial prices increased 5.1 percent.
- Average industrial prices decreased 8.3 percent.

**TABLE 1-1**  
**GAS UTILITY INDUSTRY END-USERS, SALES,**  
**REVENUES AND PRICES BY CLASS OF SERVICE, 2005 AND 2006**

|                                    | 2005           | 2006           | Percentage<br>Change |            |
|------------------------------------|----------------|----------------|----------------------|------------|
| <b>END-USERS—TOTAL<sup>a</sup></b> | <b>64,395</b>  | <b>65,020</b>  | +                    | <b>1.0</b> |
| Residential                        | 59,569         | 60,147         | +                    | 1.0        |
| Commercial                         | 4,678          | 4,744          | +                    | 1.2        |
| Industrial                         | 146            | 138            | -                    | 5.4        |
| Other                              | 2              | 2              | -                    | 21.7       |
| <b>SALES—TOTAL<sup>b</sup></b>     | <b>8,848</b>   | <b>8,222</b>   | -                    | <b>7.1</b> |
| Residential                        | 4,516          | 4,117          | -                    | 8.8        |
| Commercial                         | 2,056          | 1,861          | -                    | 9.5        |
| Industrial                         | 2,264          | 2,182          | -                    | 3.6        |
| Other                              | 12             | 61             | +                    | 408.2      |
| <b>REVENUES—TOTAL<sup>c</sup></b>  | <b>96,909</b>  | <b>91,928</b>  | -                    | <b>5.1</b> |
| Residential                        | 55,680         | 53,961         | -                    | 3.1        |
| Commercial                         | 22,653         | 21,557         | -                    | 4.8        |
| Industrial                         | 18,469         | 15,926         | -                    | 13.8       |
| Other                              | 107            | 484            | +                    | 352.1      |
| <b>PRICES—TOTAL<sup>d</sup></b>    | <b>\$10.95</b> | <b>\$11.18</b> | +                    | <b>2.1</b> |
| Residential                        | 12.33          | 13.11          | +                    | 6.3        |
| Commercial                         | 11.02          | 11.58          | +                    | 5.1        |
| Industrial                         | 8.31           | 7.62           | -                    | 8.3        |
| Other                              | 8.83           | 7.71           | -                    | 12.7       |

a. Yearly averages (thousands).  
b. Sales quantities in trillions of Btu.  
c. Revenues in millions of dollars.  
d. Prices in dollars per million Btu.

## SECTION 2

### NATURAL GAS RESERVES, PRODUCING GAS WELLS

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#### RESERVES AS OF DECEMBER 31

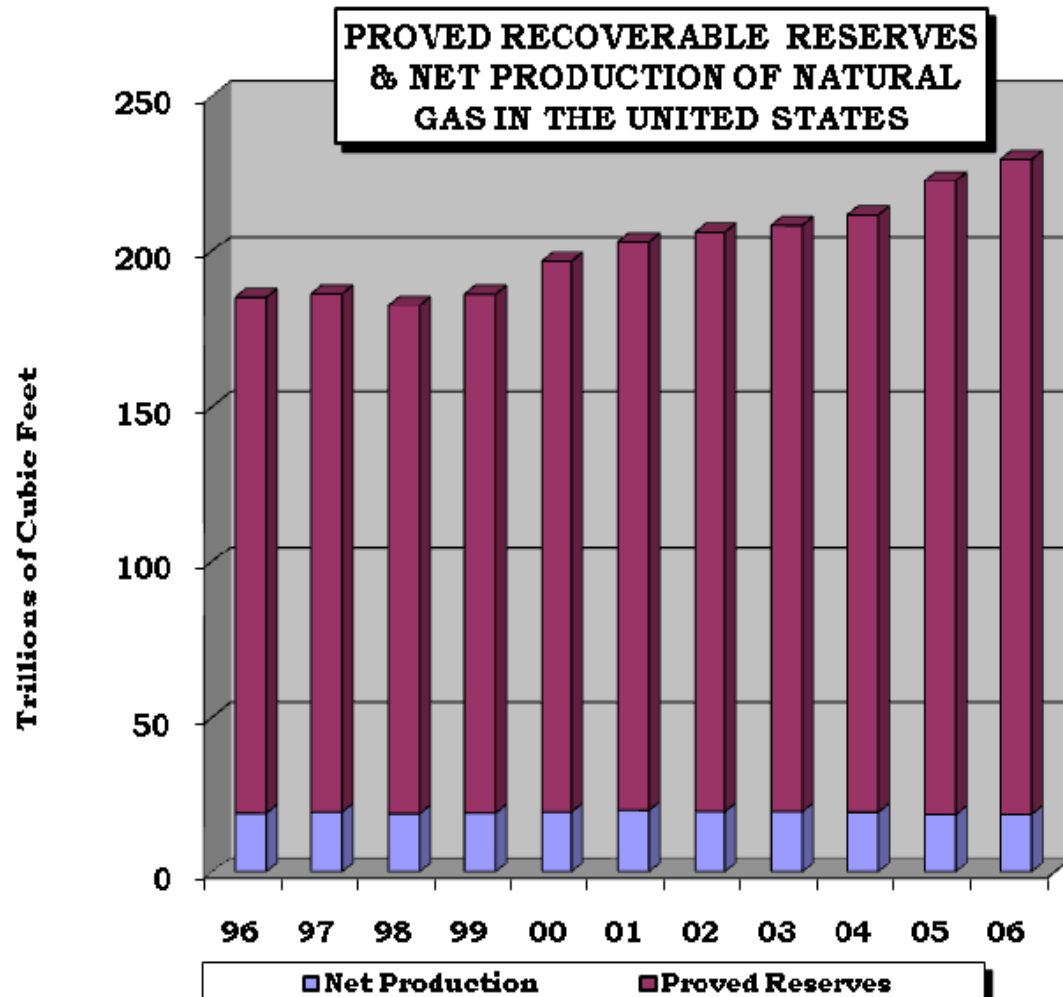
|                          | <u>2006</u> | <u>% Change</u><br><u>2006/2005</u> |
|--------------------------|-------------|-------------------------------------|
| <b>Natural Gas</b>       |             |                                     |
| (Billions of cubic feet) |             |                                     |
| Total Proved Reserves    | 211,085     | + 3.3                               |
| Total Discoveries        | 23,342      | + 0.6                               |
| Production               | 18,545      | + 0.5                               |

#### NATURAL GAS WELLS

|                       | <u>2006</u> | <u>% Change</u><br><u>2006/2005</u> |
|-----------------------|-------------|-------------------------------------|
| Total Producing Wells | 448,641     | + 5.5                               |

# NATURAL GAS RESERVES, PRODUCING GAS WELLS

Source: IHS Energy Research Corp.



# NATURAL GAS RESERVES, PRODUCING GAS WELLS

TABLE 2-1

## SUMMARY OF ANNUAL ESTIMATES OF PROVED RESERVES OF NATURAL GAS IN THE UNITED STATES 1981-2006

(Billions of Cubic Feet)

| Year | Changes in Reserves During Year                 |                              |                              |                                        |                                     |                                 |                                          |                          |                                                 |                                          |
|------|-------------------------------------------------|------------------------------|------------------------------|----------------------------------------|-------------------------------------|---------------------------------|------------------------------------------|--------------------------|-------------------------------------------------|------------------------------------------|
|      | Net of<br>Corrections and<br>Adjustments<br>(1) | Revision<br>Increases<br>(2) | Revision<br>Decreases<br>(3) | Extensions to<br>Old Reservoirs<br>(4) | Discoveries in<br>Old Fields<br>(5) | New Field<br>Discoveries<br>(6) | Total<br>Discoveries <sup>a</sup><br>(7) | Production<br>Dry<br>(8) | Proved<br>Reserves <sup>b</sup><br>12/31<br>(9) | Net Change<br>From Prior<br>Year<br>(10) |
| 1981 | 1,627                                           | 16,412                       | 13,813                       | 10,491                                 | 2,998                               | 3,731                           | 17,220                                   | 18,737                   | 201,730                                         | 2,709                                    |
| 1982 | 2,378                                           | 19,795                       | 19,340                       | 8,349                                  | 3,419                               | 2,687                           | 14,455                                   | 17,506                   | 201,512                                         | (218)                                    |
| 1983 | 3,090                                           | 17,602                       | 17,617                       | 6,909                                  | 2,965                               | 1,574                           | 11,448                                   | 15,788                   | 200,247                                         | (1,265)                                  |
| 1984 | (2,241)                                         | 17,841                       | 14,712                       | 8,299                                  | 2,686                               | 2,536                           | 13,521                                   | 17,193                   | 197,463                                         | (2,784)                                  |
| 1985 | (1,708)                                         | 18,775                       | 16,304                       | 7,169                                  | 2,960                               | 999                             | 11,128                                   | 15,985                   | 193,369                                         | (4,094)                                  |
| 1986 | 1,320                                           | 21,269                       | 17,697                       | 6,065                                  | 1,771                               | 1,099                           | 8,935                                    | 15,610                   | 191,586                                         | (1,783)                                  |
| 1987 | 1,268                                           | 17,527                       | 14,231                       | 4,587                                  | 1,499                               | 1,089                           | 7,175                                    | 16,114                   | 187,211                                         | (4,375)                                  |
| 1988 | 2,193                                           | 23,367                       | 38,427 <sup>c</sup>          | 6,803                                  | 1,909                               | 1,638                           | 10,350                                   | 16,670                   | 168,024 <sup>c</sup>                            | (19,187) <sup>c</sup>                    |
| 1989 | 3,013                                           | 26,673                       | 23,643                       | 6,339                                  | 2,243                               | 1,450                           | 10,032                                   | 16,983                   | 167,116                                         | (908)                                    |
| 1990 | 1,557                                           | 18,981                       | 13,443                       | 7,952                                  | 2,412                               | 2,004                           | 12,368                                   | 17,233                   | 169,346                                         | 2,230                                    |
| 1991 | 2,960                                           | 19,890                       | 15,474                       | 5,090                                  | 1,604                               | 848                             | 7,542                                    | 17,202                   | 167,062                                         | (2,284)                                  |
| 1992 | 2,235                                           | 18,055                       | 11,962                       | 4,675                                  | 1,724                               | 649                             | 7,048                                    | 17,423                   | 165,015                                         | (2,047)                                  |
| 1993 | 972                                             | 17,597                       | 12,248                       | 6,103                                  | 1,866                               | 899                             | 8,868                                    | 17,789                   | 162,415                                         | (2,600)                                  |
| 1994 | 1,945                                           | 21,365                       | 15,881                       | 6,941                                  | 3,480                               | 1,894                           | 12,315                                   | 18,322                   | 163,837                                         | 1,422                                    |
| 1995 | 580                                             | 20,465                       | 12,731                       | 6,843                                  | 2,452                               | 1,666                           | 10,961                                   | 17,966                   | 165,146                                         | 1,309                                    |
| 1996 | 3,785                                           | 17,132                       | 13,046                       | 7,757                                  | 1,451                               | 3,110                           | 12,318                                   | 18,861                   | 166,474                                         | 1,328                                    |
| 1997 | (590)                                           | 21,658                       | 16,756                       | 10,585                                 | 2,681                               | 2,382                           | 15,648                                   | 19,211                   | 167,223                                         | 749                                      |
| 1998 | (1,635)                                         | 28,003                       | 22,263                       | 8,197                                  | 2,162                               | 1,074                           | 11,433                                   | 18,720                   | 164,041                                         | (3,182)                                  |
| 1999 | 982                                             | 42,167                       | 31,663                       | 7,043                                  | 2,196                               | 1,568                           | 10,807                                   | 18,928                   | 167,041                                         | 3,365                                    |
| 2000 | (891)                                           | 23,188                       | 16,226                       | 14,787                                 | 2,368                               | 1,983                           | 19,138                                   | 19,219                   | 177,427                                         | 10,386                                   |
| 2001 | (2,742)                                         | 18,358                       | 20,676                       | 16,380                                 | 2,800                               | 3,578                           | 22,758                                   | 19,779                   | 183,460                                         | 6,033                                    |
| 2002 | 3,727                                           | 20,255                       | 19,318                       | 14,769                                 | 1,694                               | 1,332                           | 17,795                                   | 19,353                   | 186,946                                         | 3,486                                    |
| 2003 | 2,841                                           | 19,912                       | 21,550                       | 16,454                                 | 1,610                               | 1,222                           | 19,286                                   | 19,425                   | 189,044                                         | 2,098                                    |
| 2004 | (114)                                           | 26,893                       | 26,149                       | 18,198                                 | 1,206                               | 759                             | 20,163                                   | 19,168                   | 192,513                                         | 3,469                                    |
| 2005 | 1,887                                           | 22,353                       | 19,654                       | 21,050                                 | 1,208                               | 942                             | 23,200                                   | 18,458                   | 204,385                                         | 11,872                                   |
| 2006 | 743                                             | 20,833                       | 22,669                       | 21,778                                 | 1,155                               | 409                             | 23,342                                   | 18,545                   | 211,085                                         | 6,700                                    |

a. Col. 4+Col. 5+Col. 6 = Col. 7.

b. Proved reserves Prior year Col. 9+Col. 1+Col. 2-Col. 3+Col. 7-Col. 8.

c. An unusually large revision decrease to North Slope dry natural gas reserves was made in 1988 due to lack of transportation to potential markets.

Note: "Old" means discovered in a prior year. "New" means discovered during the report year.

Source: U.S. Department of Energy, Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, 2006 Annual Report.

# NATURAL GAS RESERVES, PRODUCING GAS WELLS

**TABLE 2-2**  
**SUMMARY OF ANNUAL ESTIMATES OF RESERVES OF NATURAL GAS IN CANADA, 1981-2006**

(Millions of Cubic Feet)

|                             | Reserves<br>Remaining at<br>Beginning<br>of Year | Net<br>Production      | Reserves<br>Remaining at<br>End of Year | Change<br>During<br>Year |
|-----------------------------|--------------------------------------------------|------------------------|-----------------------------------------|--------------------------|
| Changes Due To:             |                                                  |                        |                                         |                          |
| <b>ESTABLISHED RESERVES</b> |                                                  |                        |                                         |                          |
| 1981                        | 88,461,174                                       | 2,405,800              | 90,985,543                              | 2,524,369                |
| 1982                        | 90,985,541                                       | 2,466,895              | 91,982,275                              | 996,734                  |
| 1983                        | 91,966,031                                       | 2,225,705              | 92,730,743                              | 764,712                  |
| 1984                        | 92,730,742                                       | 2,804,502              | 99,687,016                              | 6,956,274                |
| 1985                        | 99,145,610                                       | 2,909,576              | 98,275,160                              | (870,450)                |
| 1986                        | 98,811,812                                       | 2,731,846              | 97,448,391                              | (1,363,421)              |
| 1987                        | 97,448,391                                       | 2,834,813              | 95,576,913                              | (1,871,478)              |
| 1988                        | 95,576,913                                       | 3,588,700              | 94,787,604                              | (789,310)                |
| 1989                        | 94,787,604                                       | 3,621,887              | 96,984,808                              | 2,197,204                |
| 1990                        | 96,984,808                                       | 3,787,039              | 96,734,257                              | (250,550)                |
| 1991                        | 96,734,257                                       | 3,931,002              | 96,218,853                              | (515,404)                |
| 1992                        | 96,218,853                                       | 4,223,754              | 94,823,417                              | (1,395,436)              |
| 1993                        | 92,823,417                                       | 5,041,245              | 79,231,092                              | (15,592,325)             |
| 1994                        | 79,231,092                                       | 5,170,052              | 67,366,603                              | (11,864,489)             |
| 1995                        | 67,366,603                                       | 5,349,083              | 68,463,643                              | 1,097,040                |
| 1996                        | 68,463,643                                       | 5,621,497              | 65,349,743                              | (3,113,900)              |
| 1997                        | 65,349,743                                       | 5,508,095              | 64,197,332                              | (1,152,410)              |
| 1998                        | 64,197,332                                       | 5,850,041              | 62,027,104                              | (2,170,229)              |
| 1999                        | 62,027,104                                       | 6,006,000 <sup>c</sup> | 61,010,000 <sup>c</sup>                 | (1,017,000) <sup>c</sup> |
| 2000                        | 61,010,000 <sup>c</sup>                          | 6,120,000 <sup>c</sup> | 59,733,000 <sup>c</sup>                 | (1,277,000) <sup>c</sup> |
| 2001                        | 59,773,000 <sup>c</sup>                          | 6,440,000 <sup>c</sup> | 60,118,000 <sup>c</sup>                 | 385,000 <sup>c</sup>     |
| 2002                        | 61,118,000 <sup>c</sup>                          | 6,395,100 <sup>c</sup> | 59,069,000 <sup>c</sup>                 | (1,049,000) <sup>c</sup> |
| 2003                        | 59,069,000 <sup>c</sup>                          | 6,068,000 <sup>c</sup> | 56,577,000 <sup>c</sup>                 | (2,492,000) <sup>c</sup> |
| 2004                        | 59,577,000 <sup>c</sup>                          | 6,183,000 <sup>c</sup> | 56,543,000 <sup>c</sup>                 | (34,000) <sup>c</sup>    |
| 2005                        | 56,543,000 <sup>c</sup>                          | 6,227,000 <sup>c</sup> | 57,946,000 <sup>c</sup>                 | 1,403,000 <sup>c</sup>   |
| 2006                        | 57,946,000 <sup>c</sup>                          | 6,249,000 <sup>c</sup> | 58,199,000 <sup>c</sup>                 | 254,000 <sup>c</sup>     |

a. Volumes are calculated at a pressure base of 14.65 psia and at a standard temperature of 60°F.  
b. Not available.  
c. Rounded.  
(-): Denotes negative volume.  
Source: Canadian Association of Petroleum Producers.

NATURAL GAS RESERVES, PRODUCING GAS WELLS

**TABLE 2-3**  
**ESTIMATED ESTABLISHED REMAINING MARKETABLE RESERVES**  
**OF NATURAL GAS IN CANADA, BY PROVINCE, 2006<sup>a</sup>**

(Billions of Cubic Feet)

| Province                 | Remaining Reserves<br>December 31, 2005 | Change<br>During<br>Year | Remaining Reserves<br>At December 31, 2006 |                       |                          |
|--------------------------|-----------------------------------------|--------------------------|--------------------------------------------|-----------------------|--------------------------|
|                          |                                         |                          | Total <sup>b</sup>                         | Net<br>Non-Associated | Associated/<br>Dissolved |
| <b>Canada</b>            | <b>57,946</b>                           | <b>254</b>               | <b>58,199</b>                              | <b>50,674</b>         | <b>7,525</b>             |
| <b>Total West Canada</b> | <b>56,939</b>                           | <b>133</b>               | <b>57,072</b>                              | <b>49,547</b>         | <b>7,526</b>             |
| Alberta                  | 40,941                                  | (790)                    | 40,152                                     | 33,192                | 6,959                    |
| Br. Columbia             | 12,346                                  | 703                      | 13,049                                     | 12,598                | 452                      |
| Mainland Territories     | 400                                     | (36)                     | 363                                        | 325                   | 39                       |
| Saskatchewan             | 3,252                                   | 256                      | 3,508                                      | 3,432                 | 76                       |
| <b>Total East Canada</b> | <b>1,007</b>                            | <b>120</b>               | <b>1,127</b>                               | <b>1,127</b>          | <b>0</b>                 |
| Ontario                  | 462                                     | 248                      | 710                                        | 710                   | 0                        |
| Other E. Canada          | 4                                       | 0                        | 4                                          | 4                     | 0                        |
| East Coast Offshore      | 541                                     | (128)                    | 413                                        | 413                   | 0                        |

a. Volumes are calculated at a pressure base of 14.65 psia and at a standard temperature of 60°F.

b. Underground storage not included.

( ) Denotes negative volume.

Totals may not add due to independent rounding.

Source: Same as Table 2-2.

**TABLE 2-4**  
**CHANGES IN ESTIMATED ESTABLISHED REMAINING MARKETABLE RESERVES**  
**OF NATURAL GAS IN CANADA, BY PROVINCE, DURING 2006<sup>a</sup>**  
(Billions of Cubic Feet)

| Province                 | Remaining Reserves<br>December 31, 2005 | Gross<br>Additions | Production <sup>b</sup> | Remaining Reserves<br>December 31, 2006 |
|--------------------------|-----------------------------------------|--------------------|-------------------------|-----------------------------------------|
| <b>Canada</b>            | <b>57,946</b>                           | <b>6,503</b>       | <b>6,249</b>            | <b>58,199</b>                           |
| <b>Total West Canada</b> | <b>56,939</b>                           | <b>6,243</b>       | <b>6,109</b>            | <b>57,072</b>                           |
| Alberta                  | 40,941                                  | 4,039              | 4,828                   | 40,152                                  |
| Br. Columbia             | 12,346                                  | 1,729              | 1,026                   | 13,049                                  |
| Mainland Territories     | 400                                     | (26)               | 10                      | 363                                     |
| Saskatchewan             | 3,252                                   | 501                | 245                     | 3,508                                   |
| <b>Total East Canada</b> | <b>1,007</b>                            | <b>260</b>         | <b>140</b>              | <b>1,127</b>                            |
| Ontario                  | 462                                     | 260                | 12                      | 710                                     |
| Other E. Canada          | 4                                       | 0                  | 0                       | 4                                       |
| East Coast Offshore      | 541                                     | 0                  | 128                     | 413                                     |

a. Volumes are calculated at a pressure base of 14.65 psia and at a standard temperature of 60°F.

b. Includes net change in underground storage.

( ) Denotes negative volume.

Totals may not add due to independent rounding.

Source: Same as Table 2-2.

NATURAL GAS RESERVES, PRODUCING GAS WELLS

TABLE 2-5  
NUMBER OF PRODUCING GAS WELLS, BY STATE, 1985-2006<sup>a, b</sup>

| Division and State                | 1985           | 1990           | 1995           | 2000           | 2005           | 2006           |
|-----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>United States</b>              | <b>242,356</b> | <b>269,100</b> | <b>298,541</b> | <b>341,678</b> | <b>425,303</b> | <b>448,641</b> |
| <b>New England</b>                | <b>0</b>       | <b>0</b>       | <b>0</b>       | <b>0</b>       | <b>0</b>       | <b>0</b>       |
| <b>Middle Atlantic</b>            | <b>31,000</b>  | <b>35,825</b>  | <b>37,159</b>  | <b>41,775</b>  | <b>52,103</b>  | <b>55,735</b>  |
| New Jersey                        | 0              | 0              | 0              | 0              | 0              | 0              |
| New York                          | 4,500          | 5,525          | 6,134          | 5,775          | 5,449          | 5,985          |
| Pennsylvania                      | 26,500         | 30,300         | 31,025         | 36,000         | 46,654         | 49,750         |
| <b>East North Central</b>         | <b>33,393</b>  | <b>37,687</b>  | <b>41,497</b>  | <b>42,747</b>  | <b>45,272</b>  | <b>45,797</b>  |
| Illinois                          | 123            | 356            | 372            | 280            | 316            | 316            |
| Indiana                           | 1,272          | 1,307          | 1,347          | 1,502          | 2,321          | 2,336          |
| Michigan                          | 655            | 1,438          | 5,258          | 7,068          | 8,900          | 9,200          |
| Ohio                              | 31,343         | 34,586         | 34,520         | 33,897         | 33,735         | 33,945         |
| Wisconsin                         | 0              | 0              | 0              | 0              | 0              | 0              |
| <b>West North Central</b>         | <b>16,109</b>  | <b>17,156</b>  | <b>22,277</b>  | <b>15,469</b>  | <b>19,277</b>  | <b>20,096</b>  |
| Iowa                              | 0              | 0              | 0              | 0              | 0              | 0              |
| Kansas                            | 15,980         | 16,980         | 22,020         | 15,206         | 18,946         | 19,713         |
| Minnesota                         | 0              | 0              | 0              | 0              | 0              | 0              |
| Missouri                          | 4              | 8              | 15             | 0              | 0              | 0              |
| Nebraska                          | 19             | 11             | 87             | 98             | 114            | 114            |
| North Dakota                      | 62             | 103            | 99             | 94             | 148            | 200            |
| South Dakota                      | 44             | 54             | 56             | 71             | 69             | 69             |
| <b>South Atlantic</b>             | <b>32,977</b>  | <b>38,326</b>  | <b>37,822</b>  | <b>45,533</b>  | <b>53,474</b>  | <b>58,189</b>  |
| Delaware                          | 0              | 0              | 0              | 0              | 0              | 0              |
| District of Columbia              | 0              | 0              | 0              | 0              | 0              | 0              |
| Florida                           | 0              | 0              | 0              | 0              | 0              | 0              |
| Georgia                           | 0              | 0              | 0              | 0              | 0              | 0              |
| Maryland                          | 7              | 7              | 7              | 7              | 7              | 7              |
| North Carolina                    | 0              | 0              | 0              | 0              | 0              | 0              |
| South Carolina                    | 0              | 0              | 0              | 0              | 0              | 0              |
| Virginia                          | 495            | 819            | 1,671          | 3,051          | 4,132          | 5,179          |
| West Virginia                     | 32,475         | 37,500         | 36,144         | 42,475         | 49,335         | 53,003         |
| <b>East South Central</b>         | <b>11,846</b>  | <b>15,350</b>  | <b>17,372</b>  | <b>19,223</b>  | <b>21,774</b>  | <b>24,285</b>  |
| Alabama                           | 863            | 2,362          | 3,526          | 4,359          | 5,523          | 6,227          |
| Kentucky                          | 9,285          | 11,713         | 13,311         | 13,487         | 14,175         | 15,892         |
| Mississippi                       | 710            | 585            | 535            | 997            | 1,676          | 1,836          |
| Tennessee                         | 0              | 0              | 0              | 380            | 400            | 330            |
| <b>West South Central</b>         | <b>88,415</b>  | <b>95,255</b>  | <b>102,525</b> | <b>101,784</b> | <b>133,247</b> | <b>142,548</b> |
| Arkansas                          | 2,623          | 2,952          | 3,988          | 4,000          | 2,878          | 3,811          |
| Louisiana                         | 16,716         | 16,889         | 14,169         | 15,700         | 18,838         | 17,459         |
| Oklahoma                          | 24,756         | 24,547         | 29,733         | 21,507         | 36,704         | 38,060         |
| Texas                             | 44,320         | 50,867         | 54,635         | 60,577         | 74,827         | 83,218         |
| <b>Mountain</b>                   | <b>27,945</b>  | <b>28,899</b>  | <b>38,775</b>  | <b>73,809</b>  | <b>96,435</b>  | <b>98,349</b>  |
| Arizona                           | 1              | 5              | 7              | 9              | 6              | 7              |
| Colorado                          | 4,401          | 5,741          | 7,017          | 22,442         | 22,691         | 20,568         |
| Idaho                             | 0              | 0              | 0              | 0              | 0              | 0              |
| Montana                           | 2,260          | 2,607          | 2,918          | 3,321          | 5,751          | 6,578          |
| Nevada                            | 0              | 0              | 0              | 4              | 4              | 4              |
| New Mexico                        | 18,308         | 17,124         | 23,510         | 33,948         | 40,157         | 41,634         |
| Utah                              | 755            | 822            | 1,127          | 4,178          | 4,092          | 4,506          |
| Wyoming                           | 2,220          | 2,600          | 4,196          | 9,907          | 23,734         | 25,052         |
| <b>Pacific</b>                    | <b>1,659</b>   | <b>1,292</b>   | <b>1,114</b>   | <b>1,338</b>   | <b>1,598</b>   | <b>1,696</b>   |
| Alaska                            | 84             | 111            | 100            | 152            | 227            | 231            |
| California                        | 1,566          | 1,162          | 997            | 1,169          | 1,356          | 1,451          |
| Hawaii                            | 0              | 0              | 0              | 0              | 0              | 0              |
| Oregon                            | 9              | 19             | 17             | 17             | 15             | 14             |
| Washington                        | 0              | 0              | 0              | 0              | 0              | 0              |
| <b>Gulf of Mexico<sup>b</sup></b> | <b>N.A.</b>    | <b>N.A.</b>    | <b>N.A.</b>    | <b>N.A.</b>    | <b>2,123</b>   | <b>1,946</b>   |

a. Data pertain only to dry gas and condensate wells. Data as of December 31.

b. Beginning in 2001, the number of Federal offshore Gulf of Mexico producing gas and gas condensate wells is reported separately. For previous years the well counts for the Federal offshore Gulf of Mexico were included in the well counts for the States of Alabama, Louisiana and Texas.

N.A. - Not Available

R. - Revised

Source: Energy Information Administration, *Natural Gas Annual 2006*, November 2007

**TABLE 2-6**  
**CRUDE OIL AND NATURAL GAS WELLS DRILLED**

|                   | <u>Crude Oil</u> | <u>Natural Gas</u> | <u>Dry</u> | <u>Total</u> |
|-------------------|------------------|--------------------|------------|--------------|
| 1981              | 43,598           | 20,166             | 27,789     | 91,553       |
| 1982              | 39,199           | 18,979             | 26,219     | 84,397       |
| 1983              | 37,120           | 14,564             | 24,153     | 75,837       |
| 1984              | 42,605           | 17,127             | 25,681     | 85,413       |
| 1985              | 35,261           | 14,324             | 21,211     | 70,796       |
| 1986              | 19,097           | 8,615              | 12,678     | 40,291       |
| 1987              | 16,164           | 8,055              | 11,112     | 35,331       |
| 1988              | 13,636           | 8,555              | 10,041     | 32,232       |
| 1989              | 10,204           | 9,539              | 8,188      | 27,931       |
| 1990              | 12,445           | 11,126             | 8,496      | 32,067       |
| 1991              | 11,770           | 9,526              | 7,596      | 28,892       |
| 1992              | 8,757            | 8,209              | 6,118      | 23,084       |
| 1993              | 8,407            | 10,017             | 6,328      | 24,752       |
| 1994              | 6,721            | 9,538              | 5,307      | 21,566       |
| 1995              | 7,827            | 8,454              | 5,319      | 21,500       |
| 1996              | 8,760            | 9,539              | 5,587      | 23,886       |
| 1997              | 10,445           | 11,186             | 5,955      | 27,586       |
| 1998              | 6,979            | 11,127             | 4,805      | 22,911       |
| 1999              | 4,314            | 11,121             | 3,504      | 18,939       |
| 2000              | 7,585            | 16,242             | 4,046      | 27,873       |
| 2001              | 8,186            | 21,403             | 4,432      | 34,021       |
| 2002              | 6,226            | 16,728             | 3,610      | 26,564       |
| 2003              | 7,465            | 19,522             | 3,688      | 30,675       |
| 2004 <sup>R</sup> | 7,806            | 21,816             | 3,474      | 33,096       |
| 2005 <sup>R</sup> | 9,668            | 27,014             | 4,063      | 40,745       |
| 2006              | 12,339           | 31,587             | 5,581      | 49,507       |

Source: U.S. Department of Energy, Energy Information Administration, *Monthly Energy Review*, December, 2007.  
R. - Revised

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### SECTION 3

## NATURAL GAS IMPORTS, EXPORTS AND SUPPLEMENTALS

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|                                      | <u>2006</u> | <u>% Change</u><br><u>2006/2005</u> |
|--------------------------------------|-------------|-------------------------------------|
| Net Imports (Billions of cubic feet) | 3,603       | - 2.9                               |
| Net Exports (Billions of cubic feet) | 724         | - 0.7                               |

## SUPPLY

**TABLE 3-1**  
**EXPORTS OF NATURAL GAS FROM THE UNITED STATES, 1982-2006**  
(Millions of Cubic Feet)

| Year | Total   | Canada  | Mexico <sup>b</sup> | Japan <sup>a</sup> |
|------|---------|---------|---------------------|--------------------|
| 1982 | 51,728  | 162     | 1,705               | 49,861             |
| 1983 | 54,639  | 136     | 1,646               | 52,857             |
| 1984 | 54,753  | 127     | 1,786               | 52,840             |
| 1985 | 55,268  | 178     | 2,207               | 52,883             |
| 1986 | 61,271  | 9,203   | 1,896               | 50,172             |
| 1987 | 54,020  | 3,297   | 2,125               | 48,599             |
| 1988 | 73,638  | 19,738  | 2,327               | 51,573             |
| 1989 | 106,871 | 38,443  | 17,004              | 51,424             |
| 1990 | 85,565  | 17,359  | 15,659              | 52,546             |
| 1991 | 129,244 | 14,791  | 60,448              | 54,005             |
| 1992 | 216,282 | 67,777  | 95,973              | 52,532             |
| 1993 | 140,183 | 44,518  | 39,676              | 55,989             |
| 1994 | 161,738 | 52,556  | 46,500              | 62,682             |
| 1995 | 154,119 | 27,554  | 61,283              | 65,283             |
| 1996 | 153,393 | 51,905  | 33,840              | 67,648             |
| 1997 | 157,006 | 56,447  | 38,372              | 62,187             |
| 1998 | 159,007 | 39,891  | 53,166              | 65,951             |
| 1999 | 163,415 | 38,508  | 61,300              | 63,607             |
| 2000 | 243,716 | 72,586  | 105,520             | 65,610             |
| 2001 | 373,278 | 166,690 | 140,835             | 65,753             |
| 2002 | 516,233 | 189,313 | 263,481             | 63,439             |
| 2003 | 679,922 | 270,988 | 343,235             | 65,698             |
| 2004 | 854,138 | 394,585 | 397,454             | 62,099             |
| 2005 | 728,601 | 358,280 | 305,196             | 65,124             |
| 2006 | 723,958 | 341,065 | 322,128             | 60,765             |

<sup>a</sup>. LNG exports from Alaska.

<sup>b</sup>. Includes LNG Exports beginning in 1998.

Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Monthly*, December 2007.

**TABLE 3-2**  
**PIPELINE IMPORTS OF NATURAL GAS TO THE UNITED STATES, 1982-2006**  
(Millions of Cubic Feet)

| Year | Total     | Canada    | Mexico |
|------|-----------|-----------|--------|
| 1982 | 878,201   | 783,407   | 94,794 |
| 1983 | 787,284   | 711,923   | 75,361 |
| 1984 | 806,870   | 755,368   | 51,502 |
| 1985 | 926,056   | 926,056   | 0      |
| 1986 | 748,780   | 748,780   | 0      |
| 1987 | 992,532   | 992,532   | 0      |
| 1988 | 1,276,322 | 1,276,322 | 0      |
| 1989 | 1,339,357 | 1,339,357 | 0      |
| 1990 | 1,448,065 | 1,448,065 | 0      |
| 1991 | 1,709,716 | 1,709,716 | 0      |
| 1992 | 2,094,387 | 2,094,387 | 0      |
| 1993 | 2,268,429 | 2,266,751 | 1,678  |
| 1994 | 2,573,061 | 2,566,049 | 7,013  |
| 1995 | 2,823,130 | 2,816,408 | 6,722  |
| 1996 | 2,897,138 | 2,883,277 | 13,862 |
| 1997 | 2,916,394 | 2,899,152 | 17,243 |
| 1998 | 3,066,605 | 3,052,073 | 14,532 |
| 1999 | 3,422,075 | 3,367,545 | 54,530 |
| 2000 | 3,555,567 | 3,543,966 | 11,601 |
| 2001 | 3,738,813 | 3,728,537 | 10,276 |
| 2002 | 3,786,733 | 3,784,978 | 1,755  |
| 2003 | 3,437,230 | 3,437,230 | 0      |
| 2004 | 3,606,543 | 3,606,543 | 0      |
| 2005 | 3,709,774 | 3,700,454 | 9,320  |
| 2006 | 3,602,744 | 3,589,995 | 12,749 |

Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Monthly*, December 2007.

## SUPPLY

**TABLE 3-3**  
**LNG IMPORTS/EXPORTS, 1982-2006**  
(Millions of Cubic Feet)

| Year | IMPORTS |           |        |          |                    | EXPORTS |        |           |
|------|---------|-----------|--------|----------|--------------------|---------|--------|-----------|
|      | Algeria | Australia | Qatar  | Trinidad | Other <sup>a</sup> | Japan   | Mexico | Total Net |
| 1982 | 55,136  | 0         | 0      | 0        | 0                  | 49,861  | 0      | 5,275     |
| 1983 | 131,124 | 0         | 0      | 0        | 0                  | 52,857  | 0      | 78,267    |
| 1984 | 36,191  | 0         | 0      | 0        | 0                  | 52,840  | 0      | -16,649   |
| 1985 | 23,659  | 0         | 0      | 0        | 0                  | 52,883  | 0      | -29,224   |
| 1986 | 0       | 0         | 0      | 0        | 0                  | 50,172  | 0      | -50,172   |
| 1987 | 0       | 0         | 0      | 0        | 0                  | 48,599  | 0      | -48,599   |
| 1988 | 17,490  | 0         | 0      | 0        | 0                  | 51,573  | 0      | -34,083   |
| 1989 | 42,163  | 0         | 0      | 0        | 0                  | 51,424  | 0      | -9,261    |
| 1990 | 84,193  | 0         | 0      | 0        | 0                  | 52,546  | 0      | 31,647    |
| 1991 | 63,596  | 0         | 0      | 0        | 0                  | 54,005  | 0      | 9,591     |
| 1992 | 43,116  | 0         | 0      | 0        | 0                  | 52,532  | 0      | -9,416    |
| 1993 | 81,685  | 0         | 0      | 0        | 0                  | 55,989  | 0      | 25,696    |
| 1994 | 50,778  | 0         | 0      | 0        | 0                  | 62,682  | 0      | -11,904   |
| 1995 | 17,918  | 0         | 0      | 0        | 0                  | 65,283  | 0      | -47,365   |
| 1996 | 35,325  | 0         | 0      | 0        | 4,949              | 67,648  | 0      | -27,374   |
| 1997 | 65,675  | 9,686     | 0      | 0        | 2,417              | 62,187  | 0      | 15,591    |
| 1998 | 68,567  | 11,634    | 0      | 0        | 5,252              | 65,951  | 33     | 19,469    |
| 1999 | 75,763  | 11,904    | 19,697 | 50,777   | 5,289              | 63,607  | 275    | 99,548    |
| 2000 | 46,947  | 5,945     | 46,057 | 98,949   | 28,138             | 65,610  | 418    | 160,008   |
| 2001 | 64,945  | 2,394     | 22,758 | 98,009   | 50,021             | 65,753  | 465    | 171,909   |
| 2002 | 26,584  | 0         | 35,081 | 151,104  | 15,961             | 63,439  | 403    | 164,888   |
| 2003 | 53,423  | 0         | 13,623 | 378,069  | 61,403             | 65,698  | 376    | 440,444   |
| 2004 | 120,343 | 14,990    | 11,854 | 462,100  | 56,219             | 62,099  | 368    | 603,039   |
| 2005 | 97,157  | 0         | 2,986  | 439,246  | 91,871             | 65,124  | 242    | 565,894   |
| 2006 | 17,449  | 0         | 0      | 389,268  | 57,292             | 60,765  | 173    | 522,599   |

<sup>a</sup>. Other includes imports from Brunei, UAE, Egypt, Indonesia, Malaysia, Nigeria and Oman.

Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Monthly*, December 2007.

## SUPPLY

**TABLE 3-4**  
**SUPPLEMENTAL GAS SUPPLIES BY STATE, 2006**  
(Millions of Cubic Feet)

| Division and State        | Total         | Synthetic Gas | Natural Gas | Propane-Air | Refinery Gas | Other <sup>a</sup> |
|---------------------------|---------------|---------------|-------------|-------------|--------------|--------------------|
| <b>United States</b>      | <b>66,058</b> | <b>56,971</b> |             | <b>673</b>  | <b>0</b>     | <b>8,415</b>       |
| <b>New England</b>        | <b>236</b>    | <b>0</b>      |             | <b>236</b>  | <b>0</b>     | <b>0</b>           |
| Connecticut               | 91            | 0             |             | 91          | 0            | 0                  |
| Maine                     | 0             | 0             |             | 0           | 0            | 0                  |
| Massachusetts             | 51            | 0             |             | 51          | 0            | 0                  |
| New Hampshire             | 92            | 0             |             | 92          | 0            | 0                  |
| Rhode Island              | 0             | 0             |             | 0           | 0            | 0                  |
| Vermont                   | 2             | 0             |             | 2           | 0            | 0                  |
| <b>Middle Atlantic</b>    | <b>303</b>    | <b>0</b>      |             | <b>128</b>  | <b>0</b>     | <b>175</b>         |
| New Jersey                | 175           | 0             |             | 0           | 0            | 175                |
| New York                  | 4             | 0             |             | 4           | 0            | 0                  |
| Pennsylvania              | 124           | 0             |             | 124         | 0            | 0                  |
| <b>East North Central</b> | <b>2,078</b>  | <b>0</b>      |             | <b>26</b>   | <b>0</b>     | <b>2,052</b>       |
| Illinois                  | 13            | 0             |             | 13          | 0            | 0                  |
| Indiana                   | 1,642         | 0             |             | 2           | 0            | 1,640              |
| Michigan                  | 0             | 0             |             | 0           | 0            | 0                  |
| Ohio                      | 423           | 0             |             | 11          | 0            | 412                |
| Wisconsin                 | 0             | 0             |             | 0           | 0            | 0                  |
| <b>West North Central</b> | <b>54,517</b> | <b>54,361</b> |             | <b>110</b>  | <b>0</b>     | <b>46</b>          |
| Iowa                      | 46            | 0             |             | *           | 0            | 46                 |
| Kansas                    | 0             | 0             |             | 0           | 0            | 0                  |
| Minnesota                 | 13            | 0             |             | 13          | 0            | 0                  |
| Missouri                  | 78            | 0             |             | 78          | 0            | 0                  |
| Nebraska                  | 19            | 0             |             | 19          | 0            | 0                  |
| North Dakota              | 54,361        | 54,361        |             | 0           | 0            | 0                  |
| South Dakota              | 0             | 0             |             | 0           | 0            | 0                  |
| <b>South Atlantic</b>     | <b>158</b>    | <b>0</b>      |             | <b>154</b>  | <b>0</b>     | <b>4</b>           |
| Delaware                  | *             | 0             |             | *           | 0            | 0                  |
| District of Columbia      | 0             | 0             |             | 0           | 0            | 0                  |
| Florida                   | 0             | 0             |             | 0           | 0            | 0                  |
| Georgia                   | 3             | 0             |             | 3           | 0            | 0                  |
| Maryland                  | 41            | 0             |             | 41          | 0            | 0                  |
| North Carolina            | 0             | 0             |             | 0           | 0            | 0                  |
| South Carolina            | 75            | 0             |             | 75          | 0            | 0                  |
| Virginia                  | 39            | 0             |             | 35          | 0            | 4                  |
| West Virginia             | 0             | 0             |             | 0           | 0            | 0                  |
| <b>East South Central</b> | <b>3</b>      | <b>0</b>      |             | <b>3</b>    | <b>0</b>     | <b>0</b>           |
| Alabama                   | 0             | 0             |             | 0           | 0            | 0                  |
| Kentucky                  | 3             | 0             |             | 3           | 0            | 0                  |
| Mississippi               | 0             | 0             |             | 0           | 0            | 0                  |
| Tennessee                 | 0             | 0             |             | 0           | 0            | 0                  |
| <b>West South Central</b> | <b>0</b>      | <b>0</b>      |             | <b>0</b>    | <b>0</b>     | <b>0</b>           |
| Arkansas                  | 0             | 0             |             | 0           | 0            | 0                  |
| Louisiana                 | 0             | 0             |             | 0           | 0            | 0                  |
| Oklahoma                  | 0             | 0             |             | 0           | 0            | 0                  |
| Texas                     | 0             | 0             |             | 0           | 0            | 0                  |
| <b>Mountain</b>           | <b>6,149</b>  | <b>0</b>      |             | <b>11</b>   | <b>0</b>     | <b>6,138</b>       |
| Arizona                   | 0             | 0             |             | 0           | 0            | 0                  |
| Colorado                  | 6,149         | 0             |             | 11          | 0            | 6,138              |
| Idaho                     | 0             | 0             |             | 0           | 0            | 0                  |
| Montana                   | 0             | 0             |             | 0           | 0            | 0                  |
| Nevada                    | 0             | 0             |             | 0           | 0            | 0                  |
| New Mexico                | 0             | 0             |             | 0           | 0            | 0                  |
| Utah                      | 0             | 0             |             | 0           | 0            | 0                  |
| Wyoming                   | 0             | 0             |             | 0           | 0            | 0                  |
| <b>Pacific</b>            | <b>2,613</b>  | <b>2,610</b>  |             | <b>3</b>    | <b>0</b>     | <b>0</b>           |
| Alaska                    | 0             | 0             |             | 0           | 0            | 0                  |
| California                | 0             | 0             |             | 0           | 0            | 0                  |
| Hawaii                    | 2,613         | 2,610         |             | 3           | 0            | 0                  |
| Oregon                    | 0             | 0             |             | 0           | 0            | 0                  |
| Washington                | 0             | 0             |             | 0           | 0            | 0                  |

a. Includes coke oven gas, manufactured gas, biomass gas, and air injection for Btu stabilization.

Totals may not add due to independent rounding.

\* Volume is less than 500,000 cubic feet.

Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Annual 2006*, November 2007.

## SECTION 4

### UNDERGROUND GAS STORAGE

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|                                                       | <u>2007</u> |
|-------------------------------------------------------|-------------|
| Number of Sites                                       | 435         |
| Est. Ultimate Capacity<br>(Billions of cubic feet)    | 8,339       |
| Est. Base Gas Capacity<br>(Billions of cubic feet)    | 4,357       |
| Est. Working Gas Capacity<br>(Billions of cubic feet) | 3,982       |
| Maximum Day Output<br>(Billions of cubic feet)        | 83.5        |

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Source: 2007 Survey of Underground Storage of Natural Gas in the United States and Canada, AGA, June 2007.

# UNDERGROUND STORAGE

**TABLE 4-1**  
**NUMBER OF UNDERGROUND STORAGE SITES**  
**AND WORKING GAS CAPACITY**  
**IN THE UNITED STATES**

| <b>Year</b> | <b>Number<br/>of<br/>Sites</b> | <b>Number<br/>of<br/>States</b> | <b>Est. Working<br/>Gas Capacity<br/>(Billions of Cubic Feet)</b> | <b>Total<br/>Deliverability<br/>(Millions of Cubic Feet Per Day)</b> |
|-------------|--------------------------------|---------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|
| 2007        | 435                            | 30                              | 3,982                                                             | 83,540                                                               |

Source: 2007 Survey of Underground Storage of Natural Gas in the United States and Canada, AGA, June 2007.

**TABLE 4-2**  
**UNDERGROUND STORAGE**  
**BY TYPE OF POOL AND WORKING CAPACITY**  
**2007**

|                         | <b>Number<br/>of<br/>Sites</b> | <b>Number<br/>Of<br/>States</b> | <b>Est. Working<br/>Gas Capacity<br/>(Billions of Cubic<br/>Feet)</b> | <b>Est. Base<br/>Gas Capacity<br/>(Billions of Cubic<br/>Feet)</b> | <b>Total Underground<br/>Storage Capacity<br/>(Billions of<br/>Cubic Feet)</b> |
|-------------------------|--------------------------------|---------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Depleted Reservoir      | 346                            | 24                              | 3,445                                                                 | 3,294                                                              | 6,739                                                                          |
| Aquifer                 | 55                             | 10                              | 359                                                                   | 981                                                                | 1,340                                                                          |
| Salt (Cavern or Bedded) | 34                             | 8                               | 178                                                                   | 82                                                                 | 260                                                                            |
| Total                   | 435                            | 30                              | 3,982                                                                 | 4,357                                                              | 8,339                                                                          |

Source: 2007 Survey of Underground Storage of Natural Gas in the United States and Canada, AGA, June 2007.

**Chart 4-1**  
**Distribution of Underground Storage By Type of Pool**

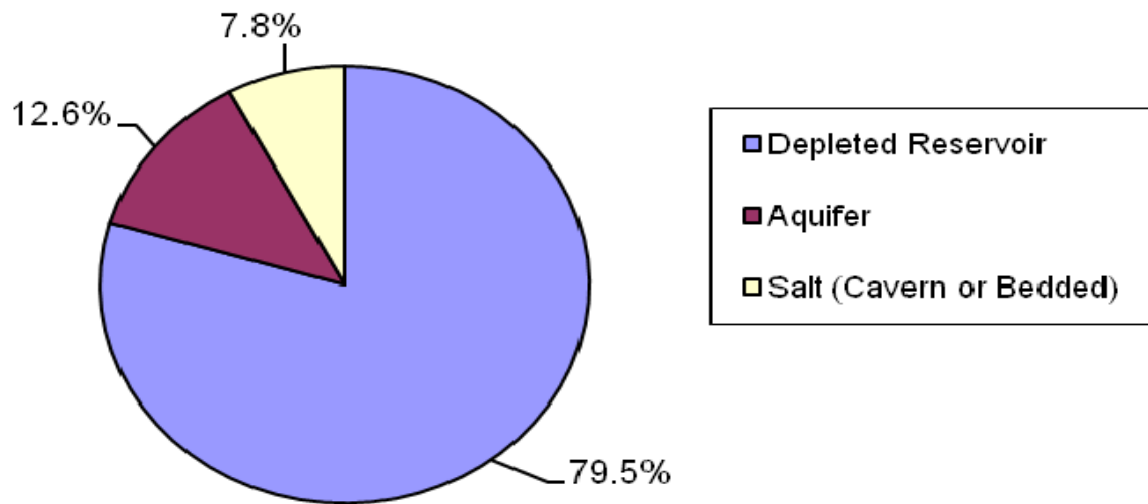


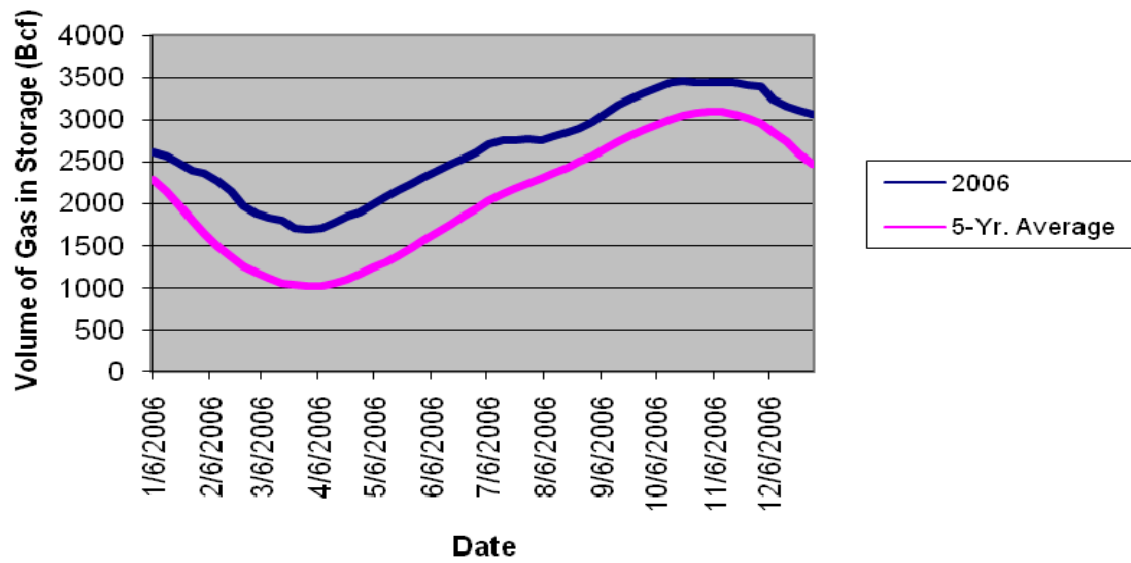
**TABLE 4-3**  
**PERCENTAGE OF UNDERGROUND STORAGE BY TYPE OF POOL**  
**IN THE UNITED STATES,**  
**2007**

| <b>Operator</b>         | <b>Percentage<br/>Of<br/>Sites</b> | <b>Percentage<br/>Of<br/>Working Gas</b> | <b>Percentage<br/>Of<br/>Base Gas</b> |
|-------------------------|------------------------------------|------------------------------------------|---------------------------------------|
| Depleted Reservoir      | 79.5                               | 86.5                                     | 75.6                                  |
| Aquifer                 | 12.6                               | 9.0                                      | 22.5                                  |
| Salt (Cavern or Bedded) | 7.8                                | 4.5                                      | 1.9                                   |
| Total                   | 100%                               | 100%                                     | 100%                                  |

May not add due to independent rounding.

Source: 2007 Survey of Underground Storage of Natural Gas in the United States and Canada, AGA, June 2007.

**Chart 4-2**  
**Total Working Gas in Storage Comparison of 2006 to**  
**Prior 5-Yr. Average**



# UNDERGROUND STORAGE

**TABLE 4-4**  
**WORKING GAS STORAGE SURVEY**  
**Weekly Data 2006**

| Date   | Regions                |                   |                   | Total U.S. |
|--------|------------------------|-------------------|-------------------|------------|
|        | Producing <sup>a</sup> | East <sup>b</sup> | West <sup>c</sup> |            |
| Jan 06 | 760                    | 1491              | 370               | 2621       |
| Jan 13 | 752                    | 1460              | 363               | 2575       |
| Jan 20 | 739                    | 1404              | 351               | 2494       |
| Jan 27 | 722                    | 1349              | 335               | 2406       |
| Feb 03 | 724                    | 1319              | 325               | 2368       |
| Feb 10 | 703                    | 1249              | 314               | 2266       |
| Feb 17 | 670                    | 1174              | 299               | 2143       |
| Feb 24 | 623                    | 1078              | 271               | 1972       |
| Mar 03 | 624                    | 1001              | 262               | 1887       |
| Mar 10 | 629                    | 951               | 252               | 1832       |
| Mar 17 | 636                    | 934               | 239               | 1809       |
| Mar 24 | 615                    | 861               | 229               | 1705       |
| Mar 31 | 618                    | 846               | 231               | 1695       |
| Apr 07 | 626                    | 855               | 233               | 1714       |
| Apr 14 | 650                    | 881               | 240               | 1771       |
| Apr 21 | 674                    | 930               | 247               | 1851       |
| Apr 28 | 690                    | 959               | 255               | 1904       |
| May 05 | 714                    | 1008              | 267               | 1989       |
| May 12 | 733                    | 1068              | 279               | 2080       |
| May 19 | 753                    | 1119              | 291               | 2163       |
| May 26 | 768                    | 1169              | 306               | 2243       |
| Jun 02 | 786                    | 1213              | 321               | 2320       |
| Jun 09 | 795                    | 1268              | 334               | 2397       |
| Jun 16 | 812                    | 1317              | 347               | 2476       |
| Jun 23 | 827                    | 1359              | 356               | 2542       |
| Jun 30 | 844                    | 1409              | 362               | 2615       |
| Jul 07 | 864                    | 1464              | 376               | 2704       |
| Jul 14 | 870                    | 1509              | 384               | 2763       |
| Jul 21 | 850                    | 1525              | 381               | 2756       |
| Jul 28 | 847                    | 1555              | 373               | 2775       |
| Aug 04 | 829                    | 1554              | 380               | 2763       |
| Aug 11 | 825                    | 1591              | 384               | 2800       |
| Aug 18 | 827                    | 1639              | 391               | 2857       |
| Aug 25 | 834                    | 1673              | 398               | 2905       |
| Sep 01 | 853                    | 1716              | 407               | 2976       |
| Sep 08 | 886                    | 1781              | 417               | 3084       |
| Sep 15 | 915                    | 1835              | 427               | 3177       |
| Sep 22 | 942                    | 1874              | 438               | 3254       |
| Sep 29 | 965                    | 1914              | 448               | 3327       |
| Oct 06 | 979                    | 1951              | 459               | 3389       |
| Oct 13 | 997                    | 1981              | 464               | 3442       |
| Oct 20 | 1004                   | 1990              | 467               | 3461       |
| Oct 27 | 1008                   | 1976              | 468               | 3452       |
| Nov 03 | 1010                   | 1966              | 469               | 3445       |
| Nov 10 | 1015                   | 1962              | 473               | 3450       |
| Nov 17 | 1015                   | 1964              | 470               | 3449       |
| Nov 24 | 1010                   | 1936              | 471               | 3417       |
| Dec 01 | 1010                   | 1946              | 450               | 3406       |
| Dec 08 | 955                    | 1853              | 430               | 3238       |
| Dec 15 | 941                    | 1801              | 425               | 3167       |
| Dec 22 | 947                    | 1773              | 401               | 3121       |
| Dec 29 | 942                    | 1740              | 392               | 3074       |

a. Includes Texas, Oklahoma, Kansas, New Mexico, Louisiana, Arkansas and Mississippi.

b. Includes all states east of the Mississippi River less Mississippi and Alabama, plus Iowa, Nebraska and Missouri.

c. Includes all states west of the Mississippi River less Iowa, Nebraska, Missouri and Producing Region States.

Source: U.S. Dept. of Energy, Energy Information Administration, *Weekly Natural Gas Storage Report*.

# UNDERGROUND STORAGE

**TABLE 4-5  
CANADIAN UNDERGROUND  
NATURAL GAS STORAGE STATISTICS**

2007

|                                | Total<br>Canada | Alberta | British<br>Columbia | Ontario | Quebec | Saskatchewan |
|--------------------------------|-----------------|---------|---------------------|---------|--------|--------------|
| Number of Facilities           |                 |         |                     |         |        |              |
| Depleted Reservoir             | 44              | 5       | 1                   | 32      | 2      | 4            |
| Salt Cavern                    | 8               | 1       | 0                   | 0       | 0      | 7            |
| Total                          | 52              | 6       | 1                   | 32      | 2      | 11           |
| Working Gas Capacity (Bcf)     |                 |         |                     |         |        |              |
| Depleted Reservoir             | 565.8           | 233.5   | 48.0                | 244.1   | 5.0    | 35.2         |
| Salt Cavern                    | 17.9            | 3.7     | 0.0                 | 0.0     | 0.0    | 14.3         |
| Total                          | 583.8           | 237.1   | 48.0                | 244.1   | 5.0    | 49.5         |
| Maximum Deliverability (Bcf/d) |                 |         |                     |         |        |              |
| Depleted Reservoir             | 4.6*            | 3.6     | 0.7                 | n.a.    | 0.1    | 0.2          |
| Salt Cavern                    | 1.1             | 0.6     | 0.0                 | 0.0     | 0.0    | 0.5          |
| Total                          | 5.7*            | 4.2     | 0.7                 | n.a.    | 0.1    | 0.7          |

n.a. – Not Available

\* - Does Not Include Ontario

Source: AGA, 2007 Survey of Underground Storage of Natural Gas in the United States and Canada, June 2007.

## UNDERGROUND STORAGE

## SECTION 5

### DISTRIBUTION AND TRANSMISSION

### MILES OF PIPELINE

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|                          | <u>2006</u> | <u>% Change</u><br><u>2006/2005</u> |
|--------------------------|-------------|-------------------------------------|
| <b>Miles of Pipeline</b> |             |                                     |
| (Thousands)              |             |                                     |
| Total                    | 1,534.3     | + 6.7                               |
| Gathering                | 19.9        | - 1.7                               |
| Transmission             | 300.4       | + 1.3                               |
| Distribution             | 1,214.0     | + 8.6                               |

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Source: Tables in the Section are compiled from U.S. Department of Transportation data.



**TABLE 5-1**  
**GAS INDUSTRY MILES OF PIPELINE AND MAIN,**  
**BY TYPE, 1990-2006<sup>a</sup>**

(Thousands)

| Year    | Total <sup>a</sup> | Gathering | Transmission Pipeline | Distribution Main |
|---------|--------------------|-----------|-----------------------|-------------------|
| 1990    | 1,189.2            | 32.4      | 292.2                 | 864.6             |
| 1991    | 1,208.2            | 32.7      | 294.1                 | 891.4             |
| 1992    | 1,216.1            | 32.6      | 291.5                 | 892.0             |
| 1993    | 1,277.2            | 32.1      | 293.3                 | 951.8             |
| 1994    | 1,288.4            | 31.3      | 301.5                 | 955.6             |
| 1995    | 1,277.6            | 30.9      | 296.9                 | 949.8             |
| 1996    | 1,323.6            | 29.6      | 292.2                 | 1,001.8           |
| 1997    | 1,331.8            | 34.7      | 294.0                 | 1,003.1           |
| 1998    | 1,351.2            | 29.0      | 300.1                 | 1,022.1           |
| 1999    | 1,340.3            | 31.8      | 301.0                 | 1,007.5           |
| 2000    | 1,369.3            | 27.1      | 296.6                 | 1,045.6           |
| 2001    | 1,373.5            | 20.1      | 287.1                 | 1,066.3           |
| 2002    | 1,411.4            | 22.3      | 309.5                 | 1,079.6           |
| 2003    | 1,424.2            | 22.3      | 304.0                 | 1,097.9           |
| 2004    | 1,462.3            | 23.7      | 298.9                 | 1,139.8           |
| 2005    | 1,437.5            | 23.3      | 296.4                 | 1,117.8           |
| 2006    | 1,534.3            | 19.9      | 300.4                 | 1,214.0           |
| Steel   | 872.5              | 18.7      | 299.2                 | 554.6             |
| Plastic | 621.1              | 1.0       | 0.7                   | 619.4             |
| Other   | 40.6               | 0.2       | 0.4                   | 40.0              |

a. Excludes service pipe and underground storage.  
Totals may not add due to independent rounding.

DISTRIBUTION AND TRANSMISSION

**TABLE 5-2  
GAS INDUSTRY MILES OF MAIN,  
BY STATE, 1990-2006**

| Division and State        | 1990           | 1995           | 2000             | 2005             | 2006             |
|---------------------------|----------------|----------------|------------------|------------------|------------------|
| <b>United States</b>      | <b>864,644</b> | <b>949,802</b> | <b>1,045,641</b> | <b>1,117,784</b> | <b>1,214,042</b> |
| <b>New England</b>        | <b>28,288</b>  | <b>30,492</b>  | <b>32,281</b>    | <b>35,768</b>    | <b>35,537</b>    |
| Connecticut               | 6,495          | 6,774          | 7,084            | 7,465            | 7,518            |
| Maine                     | 345            | 381            | 452              | 602              | 602              |
| Massachusetts             | 16,978         | 18,625         | 19,650           | 20,792           | 20,614           |
| New Hampshire             | 1,342          | 1,402          | 1,609            | 3,066            | 3,098            |
| Rhode Island              | 2,811          | 2,932          | 3,024            | 3,095            | 3,095            |
| Vermont                   | 317            | 378            | 462              | 748              | 611              |
| <b>Middle Atlantic</b>    | <b>104,901</b> | <b>112,611</b> | <b>117,877</b>   | <b>125,092</b>   | <b>126,206</b>   |
| New Jersey                | 26,614         | 28,505         | 30,486           | 32,301           | 32,759           |
| New York                  | 39,570         | 42,946         | 44,681           | 46,444           | 46,833           |
| Pennsylvania              | 38,717         | 41,160         | 42,710           | 46,348           | 46,614           |
| <b>East North Central</b> | <b>180,036</b> | <b>198,377</b> | <b>221,379</b>   | <b>226,084</b>   | <b>245,443</b>   |
| Illinois                  | 43,618         | 52,098         | 52,801           | 45,647           | 59,772           |
| Indiana                   | 29,627         | 32,537         | 34,988           | 38,003           | 38,885           |
| Michigan                  | 41,474         | 45,188         | 50,434           | 54,054           | 55,164           |
| Ohio                      | 43,592         | 43,122         | 50,897           | 54,775           | 55,336           |
| Wisconsin                 | 21,725         | 25,432         | 32,259           | 33,605           | 36,287           |
| <b>West North Central</b> | <b>81,714</b>  | <b>93,054</b>  | <b>103,804</b>   | <b>111,339</b>   | <b>108,360</b>   |
| Iowa                      | 15,589         | 15,325         | 16,679           | 20,343           | 17,603           |
| Kansas                    | 19,427         | 18,830         | 20,570           | 18,435           | 18,499           |
| Minnesota                 | 15,158         | 21,113         | 24,986           | 28,039           | 28,507           |
| Missouri                  | 22,228         | 21,572         | 23,781           | 25,721           | 24,821           |
| Nebraska                  | 5,214          | 10,252         | 10,861           | 11,930           | 11,858           |
| North Dakota              | 1,953          | 1,620          | 2,461            | 2,723            | 2,777            |
| South Dakota              | 2,145          | 4,342          | 4,466            | 4,149            | 4,293            |
| <b>South Atlantic</b>     | <b>94,577</b>  | <b>105,932</b> | <b>124,090</b>   | <b>137,647</b>   | <b>159,406</b>   |
| Delaware                  | 1,452          | 1,795          | 2,144            | 2,422            | 2,633            |
| District of Columbia      | 1,183          | 1,194          | 1,202            | 1,188            | 1,191            |
| Florida                   | 5,273          | 5,445          | 7,202            | 22,479           | 26,651           |
| Georgia                   | 28,713         | 32,870         | 37,113           | 39,583           | 40,996           |
| Maryland                  | 8,730          | 10,480         | 12,116           | 13,531           | 13,782           |
| North Carolina            | 18,960         | 17,272         | 21,426           | 11,602           | 25,963           |
| South Carolina            | 10,534         | 13,292         | 15,978           | 18,010           | 18,815           |
| Virginia                  | 11,570         | 14,514         | 17,435           | 19,242           | 19,717           |
| West Virginia             | 8,162          | 9,070          | 9,474            | 9,590            | 9,657            |
| <b>East South Central</b> | <b>58,149</b>  | <b>72,948</b>  | <b>83,517</b>    | <b>88,192</b>    | <b>93,589</b>    |
| Alabama                   | 18,435         | 21,794         | 23,811           | 26,964           | 28,171           |
| Kentucky                  | 11,611         | 13,855         | 14,848           | 15,779           | 15,874           |
| Mississippi               | 11,542         | 11,951         | 13,581           | 14,124           | 14,247           |
| Tennessee                 | 16,561         | 25,348         | 31,277           | 31,325           | 35,297           |
| <b>West South Central</b> | <b>134,694</b> | <b>143,422</b> | <b>148,195</b>   | <b>163,086</b>   | <b>196,411</b>   |
| Arkansas                  | 15,378         | 16,048         | 16,374           | 18,980           | 19,288           |
| Louisiana                 | 20,003         | 22,646         | 24,185           | 24,425           | 20,729           |
| Oklahoma                  | 22,591         | 22,403         | 21,520           | 23,992           | 23,905           |
| Texas                     | 76,722         | 82,325         | 86,116           | 95,690           | 132,488          |
| <b>Mountain</b>           | <b>71,091</b>  | <b>76,035</b>  | <b>91,457</b>    | <b>105,467</b>   | <b>109,685</b>   |
| Arizona                   | 17,654         | 15,716         | 17,838           | 21,488           | 22,234           |
| Colorado                  | 21,765         | 21,634         | 25,566           | 31,561           | 32,330           |
| Idaho                     | 3,213          | 4,881          | 5,986            | 7,033            | 7,440            |
| Montana                   | 4,115          | 5,092          | 5,645            | 6,494            | 6,344            |
| Nevada                    | 3,898          | 5,166          | 8,837            | 8,476            | 8,824            |
| New Mexico                | 9,630          | 10,674         | 11,612           | 12,513           | 13,102           |
| Utah                      | 7,813          | 9,233          | 12,250           | 14,204           | 14,912           |
| Wyoming                   | 3,003          | 3,639          | 3,723            | 3,697            | 4,500            |
| <b>Pacific</b>            | <b>111,194</b> | <b>116,931</b> | <b>123,041</b>   | <b>125,108</b>   | <b>139,405</b>   |
| Alaska                    | 1,940          | 2,027          | 2,550            | 2,732            | 2,833            |
| California                | 83,519         | 87,573         | 90,164           | 99,052           | 100,597          |
| Hawaii                    | 689            | 613            | 597              | 609              | 609              |
| Oregon                    | 12,394         | 11,301         | 11,906           | 14,199           | 14,555           |
| Washington                | 12,652         | 15,417         | 17,824           | 8,516            | 20,811           |

Data not adjusted to common diameter equivalent. Mileage shown as of end of year.

DISTRIBUTION AND TRANSMISSION

**TABLE 5-3**  
**GAS INDUSTRY MILES OF PIPELINE AND MAIN,**  
**BY STATE AND TYPE OF MAIN, 2006<sup>a</sup>**

| Division and State        | Total            | Field and Gathering | Transmission   | Distribution     |
|---------------------------|------------------|---------------------|----------------|------------------|
| <b>United States</b>      | <b>1,534,328</b> | <b>19,903</b>       | <b>300,383</b> | <b>1,214,042</b> |
| <b>New England</b>        | <b>38,078</b>    | <b>0</b>            | <b>2,541</b>   | <b>35,537</b>    |
| Connecticut               | 8,102            | 0                   | 584            | 7,518            |
| Maine                     | 1,064            | 0                   | 462            | 602              |
| Massachusetts             | 21,708           | 0                   | 1,094          | 20,614           |
| New Hampshire             | 3,334            | 0                   | 236            | 3,098            |
| Rhode Island              | 3,189            | 0                   | 94             | 3,095            |
| Vermont                   | 682              | 0                   | 71             | 611              |
| <b>Middle Atlantic</b>    | <b>142,171</b>   | <b>508</b>          | <b>15,457</b>  | <b>126,206</b>   |
| New Jersey                | 34,207           | 0                   | 1,448          | 32,759           |
| New York                  | 51,572           | 377                 | 4,362          | 46,833           |
| Pennsylvania              | 56,392           | 131                 | 9,647          | 46,614           |
| <b>East North Central</b> | <b>284,680</b>   | <b>1,039</b>        | <b>38,198</b>  | <b>245,443</b>   |
| Illinois                  | 69,057           | 1                   | 9,284          | 59,772           |
| Indiana                   | 44,041           | 71                  | 5,085          | 38,885           |
| Michigan                  | 64,716           | 370                 | 9,182          | 55,164           |
| Ohio                      | 66,243           | 597                 | 10,310         | 55,336           |
| Wisconsin                 | 40,624           | 0                   | 4,337          | 36,287           |
| <b>West North Central</b> | <b>149,426</b>   | <b>294</b>          | <b>40,772</b>  | <b>108,360</b>   |
| Iowa                      | 24,953           | 0                   | 7,350          | 17,603           |
| Kansas                    | 33,610           | 286                 | 14,825         | 18,499           |
| Minnesota                 | 33,952           | 0                   | 5,445          | 28,507           |
| Missouri                  | 28,826           | 0                   | 4,005          | 24,821           |
| Nebraska                  | 17,346           | 0                   | 5,488          | 11,858           |
| North Dakota              | 4,879            | 8                   | 2,094          | 2,777            |
| South Dakota              | 5,859            | 0                   | 1,566          | 4,293            |
| <b>South Atlantic</b>     | <b>184,908</b>   | <b>563</b>          | <b>24,939</b>  | <b>159,406</b>   |
| Delaware                  | 2,916            | 0                   | 283            | 2,633            |
| District of Columbia      | 1,211            | 0                   | 20             | 1,191            |
| Florida                   | 32,104           | 0                   | 5,453          | 26,651           |
| Georgia                   | 45,254           | 0                   | 4,258          | 40,996           |
| Maryland                  | 14,681           | 0                   | 899            | 13,782           |
| North Carolina            | 29,975           | 0                   | 4,012          | 25,963           |
| South Carolina            | 21,536           | 0                   | 2,721          | 18,815           |
| Virginia                  | 22,734           | 13                  | 3,004          | 19,717           |
| West Virginia             | 14,496           | 550                 | 4,289          | 9,657            |
| <b>East South Central</b> | <b>123,748</b>   | <b>1,098</b>        | <b>29,061</b>  | <b>93,589</b>    |
| Alabama                   | 35,484           | 439                 | 6,874          | 28,171           |
| Kentucky                  | 23,572           | 489                 | 7,209          | 15,874           |
| Mississippi               | 24,514           | 170                 | 10,097         | 14,247           |
| Tennessee                 | 40,178           | 0                   | 4,881          | 35,297           |
| <b>West South Central</b> | <b>307,177</b>   | <b>14,547</b>       | <b>96,219</b>  | <b>196,411</b>   |
| Arkansas                  | 27,657           | 499                 | 7,870          | 19,288           |
| Louisiana                 | 53,364           | 4,763               | 27,872         | 20,729           |
| Oklahoma                  | 37,951           | 1,659               | 12,387         | 23,905           |
| Texas                     | 188,204          | 7,626               | 48,090         | 132,488          |
| <b>Mountain</b>           | <b>147,013</b>   | <b>1,120</b>        | <b>36,208</b>  | <b>109,685</b>   |
| Arizona                   | 28,866           | 0                   | 6,632          | 22,234           |
| Colorado                  | 40,670           | 665                 | 7,675          | 32,330           |
| Idaho                     | 8,983            | 0                   | 1,543          | 7,440            |
| Montana                   | 10,207           | 17                  | 3,846          | 6,344            |
| Nevada                    | 10,569           | 0                   | 1,745          | 8,824            |
| New Mexico                | 18,668           | 327                 | 5,239          | 13,102           |
| Utah                      | 18,062           | 32                  | 3,118          | 14,912           |
| Wyoming                   | 10,988           | 79                  | 6,409          | 4,500            |
| <b>Pacific</b>            | <b>157,128</b>   | <b>735</b>          | <b>16,988</b>  | <b>139,405</b>   |
| Alaska                    | 3,684            | 68                  | 783            | 2,833            |
| California                | 113,061          | 667                 | 11,797         | 100,597          |
| Hawaii                    | 631              | 0                   | 22             | 609              |
| Oregon                    | 16,988           | 0                   | 2,433          | 14,555           |
| Washington                | 22,764           | 0                   | 1,953          | 20,811           |

a. Includes field and gathering, transmission and distribution main but excludes service pipe and underground storage.

b. Data not adjusted to common diameter equivalent. Mileage shown as of end of year.

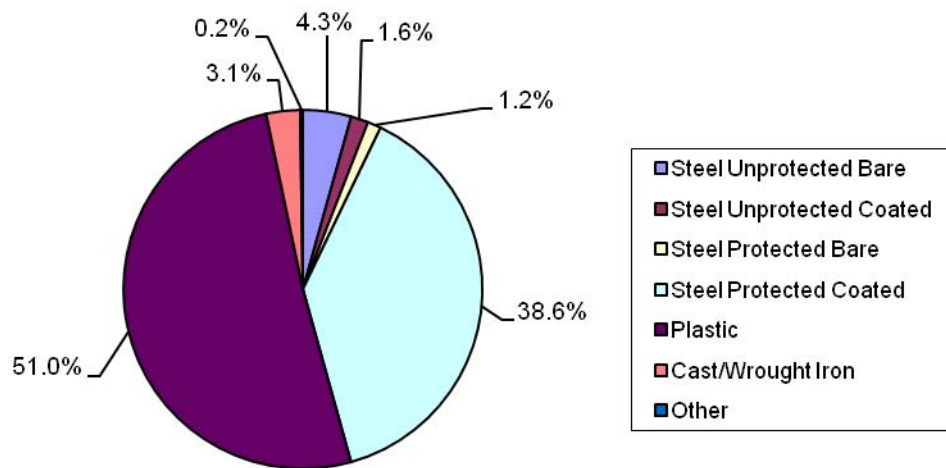
## DISTRIBUTION AND TRANSMISSION

**TABLE 5-4**  
**MILES OF MAIN BY MATERIAL, BY STATE, 2006**

| Division and State        | Steel Unprotected |        | Steel Cathodically Protected |         | Plastic | Cast or Wrought Iron | Ductile Iron | Copper | Other | Total Mi. of Main All Mat. |
|---------------------------|-------------------|--------|------------------------------|---------|---------|----------------------|--------------|--------|-------|----------------------------|
|                           | Bare              | Coated | Bare                         | Coated  |         |                      |              |        |       |                            |
| <b>United States</b>      | 52,683            | 19,111 | 14,651                       | 468,174 | 619,427 | 37,129               | 697          | 36     | 2,135 | 1,214,042                  |
| <b>New England</b>        | 2,891             | 1,864  | 198                          | 10,809  | 12,631  | 7,111                | 31           | 0      | 1     | 35,537                     |
| Connecticut               | 246               | 37     | 0                            | 3,244   | 2,339   | 1,640                | 12           | 0      | 0     | 7,518                      |
| Maine                     | 5                 | 1      | 0                            | 123     | 385     | 89                   | 0            | 0      | 0     | 602                        |
| Massachusetts             | 2,125             | 1,510  | 198                          | 5,341   | 7,271   | 4,165                | 2            | 0      | 0     | 20,614                     |
| New Hampshire             | 72                | 48     | 0                            | 1,368   | 1,301   | 309                  | 0            | 0      | 0     | 3,098                      |
| Rhode Island              | 443               | 268    | 0                            | 540     | 918     | 908                  | 17           | 0      | 1     | 3,095                      |
| Vermont                   | 0                 | 0      | 0                            | 194     | 417     | 0                    | 0            | 0      | 0     | 611                        |
| <b>Middle Atlantic</b>    | 19,004            | 3,854  | 1,380                        | 37,682  | 51,585  | 12,592               | 81           | 3      | 25    | 126,206                    |
| New Jersey                | 2,129             | 881    | 9                            | 10,723  | 13,392  | 5,603                | 20           | 0      | 2     | 32,759                     |
| New York                  | 7,757             | 1,564  | 464                          | 14,024  | 17,927  | 5,088                | 0            | 0      | 8     | 46,833                     |
| Pennsylvania              | 9,118             | 1,409  | 907                          | 12,935  | 20,266  | 1,901                | 61           | 3      | 15    | 46,614                     |
| <b>East North Central</b> | 10,478            | 4,379  | 1,059                        | 113,049 | 108,377 | 7,173                | 345          | 8      | 576   | 245,443                    |
| Illinois                  | 201               | 2      | 182                          | 39,491  | 17,466  | 2,110                | 319          | 0      | 0     | 59,772                     |
| Indiana                   | 1,012             | 185    | 9                            | 17,572  | 19,669  | 420                  | 18           | 0      | 0     | 38,885                     |
| Michigan                  | 1,061             | 1,543  | 540                          | 21,456  | 27,024  | 3,537                | 0            | 2      | 1     | 55,164                     |
| Ohio                      | 8,204             | 2,648  | 281                          | 21,182  | 21,421  | 1,106                | 8            | 3      | 484   | 55,336                     |
| Wisconsin                 | 0                 | 0      | 47                           | 13,348  | 22,798  | 0                    | 0            | 3      | 91    | 36,287                     |
| <b>West North Central</b> | 1,394             | 517    | 5,875                        | 42,162  | 55,980  | 2,243                | 13           | 1      | 175   | 108,360                    |
| Iowa                      | 70                | 134    | 345                          | 8,284   | 8,755   | 15                   | 0            | 0      | 0     | 17,603                     |
| Kansas                    | 616               | 2      | 3,038                        | 6,185   | 8,291   | 191                  | 3            | 0      | 174   | 18,499                     |
| Minnesota                 | 526               | 360    | 107                          | 7,028   | 20,380  | 105                  | 0            | 0      | 0     | 28,507                     |
| Missouri                  | 19                | 20     | 1,393                        | 11,491  | 10,630  | 1,267                | 0            | 1      | 0     | 24,821                     |
| Nebraska                  | 161               | 1      | 939                          | 6,181   | 3,949   | 617                  | 10           | 0      | 1     | 11,858                     |
| North Dakota              | 0                 | 0      | 7                            | 1,170   | 1,600   | 0                    | 0            | 0      | 0     | 2,777                      |
| South Dakota              | 2                 | 0      | 45                           | 1,824   | 2,374   | 48                   | 0            | 0      | 0     | 4,293                      |
| <b>South Atlantic</b>     | 6,339             | 1,553  | 263                          | 60,403  | 87,251  | 3,414                | 161          | 17     | 6     | 159,406                    |
| Delaware                  | 37                | 30     | 6                            | 627     | 1,809   | 124                  | 0            | 0      | 0     | 2,633                      |
| District of Columbia      | 31                | 71     | 0                            | 316     | 322     | 451                  | 0            | 0      | 0     | 1,191                      |
| Florida                   | 1,513             | 458    | 146                          | 11,314  | 12,878  | 340                  | 0            | 0      | 3     | 26,651                     |
| Georgia                   | 662               | 22     | 51                           | 16,647  | 23,318  | 295                  | 0            | 0      | 0     | 40,996                     |
| Maryland                  | 453               | 149    | 1                            | 5,402   | 6,309   | 1,467                | 2            | 0      | 0     | 13,782                     |
| North Carolina            | 1                 | 3      | 0                            | 10,583  | 15,327  | 46                   | 0            | 0      | 3     | 25,963                     |
| South Carolina            | 0                 | 4      | 10                           | 8,136   | 10,665  | 0                    | 0            | 0      | 0     | 18,815                     |
| Virginia                  | 391               | 659    | 4                            | 5,953   | 11,859  | 676                  | 159          | 17     | 0     | 19,717                     |
| West Virginia             | 3,252             | 157    | 45                           | 1,424   | 4,764   | 14                   | 0            | 0      | 0     | 9,657                      |
| <b>East South Central</b> | 1,385             | 797    | 1,564                        | 41,335  | 45,822  | 2,404                | 64           | 6      | 213   | 93,589                     |
| Alabama                   | 354               | 528    | 471                          | 12,359  | 12,588  | 1,806                | 7            | 0      | 59    | 28,171                     |
| Kentucky                  | 880               | 120    | 207                          | 7,245   | 7,223   | 190                  | 0            | 6      | 2     | 15,874                     |
| Mississippi               | 15                | 12     | 498                          | 7,519   | 6,102   | 98                   | 3            | 0      | 0     | 14,247                     |
| Tennessee                 | 136               | 137    | 388                          | 14,211  | 19,908  | 311                  | 54           | 0      | 152   | 35,297                     |
| <b>West South Central</b> | 7,017             | 347    | 2,836                        | 64,651  | 118,657 | 1,770                | 0            | 0      | 1,133 | 196,411                    |
| Arkansas                  | 720               | 59     | 881                          | 7,230   | 10,037  | 271                  | 0            | 0      | 90    | 19,288                     |
| Louisiana                 | 4                 | 21     | 509                          | 12,572  | 7,104   | 469                  | 0            | 0      | 51    | 20,729                     |
| Oklahoma                  | 1,240             | 28     | 588                          | 9,212   | 12,476  | 0                    | 0            | 0      | 362   | 23,905                     |
| Texas                     | 5,053             | 239    | 858                          | 35,637  | 89,040  | 1,030                | 0            | 0      | 630   | 132,488                    |
| <b>Mountain</b>           | 318               | 143    | 1,244                        | 37,777  | 70,068  | 130                  | 0            | 0      | 5     | 109,685                    |
| Arizona                   | 0                 | 0      | 631                          | 6,916   | 14,688  | 0                    | 0            | 0      | 0     | 22,234                     |
| Colorado                  | 250               | 118    | 95                           | 12,283  | 19,454  | 130                  | 0            | 0      | 0     | 32,330                     |
| Idaho                     | 0                 | 0      | 0                            | 3,016   | 4,424   | 0                    | 0            | 0      | 0     | 7,440                      |
| Montana                   | 14                | 0      | 2                            | 2,322   | 4,006   | 0                    | 0            | 0      | 0     | 6,344                      |
| Nevada                    | 0                 | 1      | 0                            | 1,343   | 7,480   | 0                    | 0            | 0      | 0     | 8,824                      |
| New Mexico                | 1                 | 23     | 430                          | 5,867   | 6,780   | 0                    | 0            | 0      | 0     | 13,102                     |
| Utah                      | 0                 | 0      | 0                            | 3,653   | 11,259  | 0                    | 0            | 0      | 0     | 14,912                     |
| Wyoming                   | 53                | 1      | 86                           | 2,377   | 1,978   | 0                    | 0            | 0      | 5     | 4,500                      |
| <b>Pacific</b>            | 3,858             | 5,658  | 232                          | 60,306  | 69,056  | 293                  | 2            | 0      | 0     | 139,405                    |
| Alaska                    | 8                 | 0      | 3                            | 595     | 2,226   | 0                    | 2            | 0      | 0     | 2,833                      |
| California                | 3,613             | 5,637  | 150                          | 42,941  | 48,043  | 212                  | 0            | 0      | 0     | 100,597                    |
| Hawaii                    | 144               | 0      | 0                            | 166     | 299     | 0                    | 0            | 0      | 0     | 609                        |
| Oregon                    | 1                 | 0      | 47                           | 7,869   | 6,638   | 0                    | 0            | 0      | 0     | 14,555                     |
| Washington                | 92                | 21     | 32                           | 8,735   | 11,850  | 81                   | 0            | 0      | 0     | 20,811                     |

Miles of Main by Material and Diameter are available by Company to AGA Members companies through the eGus Data System. ([www.aga.org/eGus](http://www.aga.org/eGus)).

**Chart 5 - 1**  
**2006 U.S. Miles of Main, By Material**



# DISTRIBUTION AND TRANSMISSION

**TABLE 5-5  
NUMBER OF SERVICES BY MATERIAL BY STATE, 2006**

| Division and State        | Steel Unprotected |           | Steel Cathodically Protected |            | Plastic    | Cast or Wrought Iron | Ductile Iron | Copper    | Other     | Total Services All Material |
|---------------------------|-------------------|-----------|------------------------------|------------|------------|----------------------|--------------|-----------|-----------|-----------------------------|
|                           | Bare              | Coated    | Bare                         | Coated     |            |                      |              |           |           |                             |
| <b>United States</b>      | 3,842,756         | 1,810,430 | 466,210                      | 15,284,283 | 39,614,433 | 22,922               | 532          | 1,248,933 | 1,244,451 | 63,534,950                  |
| <b>New England</b>        | 361,007           | 98,392    | 5,382                        | 310,866    | 1,048,662  | 2,489                | 0            | 14,560    | 157,632   | 1,998,990                   |
| Connecticut               | 66,163            | 8,940     | 0                            | 65,225     | 230,271    | 48                   | 0            | 1,458     | 28,524    | 400,629                     |
| Maine                     | 890               | 0         | 0                            | 1,070      | 18,368     | 0                    | 0            | 13        | 0         | 20,341                      |
| Massachusetts             | 221,692           | 72,459    | 5,382                        | 197,753    | 579,045    | 2,046                | 0            | 12,272    | 124,524   | 1,215,173                   |
| New Hampshire             | 17,385            | 3,825     | 0                            | 30,219     | 92,440     | 205                  | 0            | 636       | 2,928     | 147,638                     |
| Rhode Island              | 54,877            | 13,168    | 0                            | 11,206     | 104,640    | 190                  | 0            | 181       | 1,656     | 185,918                     |
| Vermont                   | 0                 | 0         | 0                            | 5,393      | 23,898     | 0                    | 0            | 0         | 0         | 29,291                      |
| <b>Middle Atlantic</b>    | 1,226,108         | 290,858   | 17,642                       | 1,070,800  | 5,075,299  | 3,396                | 7            | 304,894   | 23,666    | 8,012,670                   |
| New Jersey                | 370,805           | 24,933    | 221                          | 412,707    | 1,331,396  | 6                    | 7            | 75,873    | 0         | 2,215,948                   |
| New York                  | 448,796           | 179,262   | 13,235                       | 346,986    | 1,907,140  | 3,387                | 0            | 202,971   | 10,177    | 3,111,954                   |
| Pennsylvania              | 406,507           | 86,663    | 4,186                        | 311,107    | 1,836,763  | 3                    | 0            | 26,050    | 13,489    | 2,684,768                   |
| <b>East North Central</b> | 971,269           | 114,278   | 45,175                       | 3,089,453  | 8,303,195  | 127                  | 382          | 567,176   | 766,770   | 13,857,825                  |
| Illinois                  | 20,741            | 4,901     | 13,058                       | 884,788    | 1,857,361  | 71                   | 382          | 117,274   | 729,081   | 3,627,657                   |
| Indiana                   | 4,660             | 32,349    | 2,397                        | 493,464    | 1,401,413  | 0                    | 0            | 926       | 310       | 1,935,519                   |
| Michigan                  | 54,475            | 9,050     | 17,613                       | 760,313    | 1,999,231  | 11                   | 0            | 332,336   | 32,381    | 3,205,410                   |
| Ohio                      | 891,393           | 67,978    | 10,628                       | 619,201    | 1,843,441  | 45                   | 0            | 90,949    | 4,996     | 3,528,631                   |
| Wisconsin                 | 0                 | 0         | 1,479                        | 331,687    | 1,201,749  | 0                    | 0            | 25,691    | 2         | 1,560,608                   |
| <b>West North Central</b> | 150,890           | 68,389    | 39,122                       | 1,137,694  | 3,871,022  | 11                   | 0            | 144,853   | 109,514   | 5,521,495                   |
| Iowa                      | 3,459             | 1,168     | 6,242                        | 362,132    | 541,170    | 0                    | 0            | 460       | 240       | 914,871                     |
| Kansas                    | 112,066           | 29,947    | 19,497                       | 82,289     | 638,976    | 0                    | 0            | 1,256     | 106       | 884,137                     |
| Minnesota                 | 16,195            | 12,926    | 1,158                        | 148,357    | 1,228,515  | 0                    | 0            | 26,069    | 0         | 1,433,220                   |
| Missouri                  | 18,287            | 23,613    | 536                          | 233,416    | 1,059,480  | 0                    | 0            | 101,875   | 84        | 1,437,291                   |
| Nebraska                  | 883               | 281       | 1,702                        | 203,903    | 200,207    | 11                   | 0            | 15,176    | 109,084   | 531,247                     |
| North Dakota              | 0                 | 454       | 67                           | 47,320     | 89,689     | 0                    | 0            | 17        | 0         | 137,547                     |
| South Dakota              | 0                 | 0         | 9,920                        | 60,277     | 112,985    | 0                    | 0            | 0         | 0         | 183,182                     |
| <b>South Atlantic</b>     | 329,573           | 73,965    | 31,646                       | 1,613,366  | 5,456,915  | 242                  | 141          | 106,600   | 7,945     | 7,620,393                   |
| Delaware                  | 2,057             | 17,463    | 0                            | 17,610     | 110,936    | 1                    | 0            | 6,001     | 1,152     | 155,220                     |
| District of Columbia      | 8,186             | 209       | 0                            | 20,624     | 80,824     | 0                    | 0            | 12,189    | 0         | 122,032                     |
| Florida                   | 50,637            | 15,688    | 17,293                       | 238,319    | 601,636    | 0                    | 0            | 360       | 6,479     | 930,412                     |
| Georgia                   | 51,079            | 8,488     | 8,645                        | 427,669    | 1,445,761  | 12                   | 0            | 67        | 0         | 1,941,721                   |
| Maryland                  | 110,544           | 831       | 2                            | 179,097    | 617,597    | 0                    | 0            | 56,384    | 13        | 964,468                     |
| North Carolina            | 0                 | 124       | 0                            | 295,721    | 966,125    | 1                    | 138          | 0         | 293       | 1,262,402                   |
| South Carolina            | 0                 | 1         | 478                          | 185,204    | 507,511    | 0                    | 0            | 0         | 0         | 693,194                     |
| Virginia                  | 17,810            | 29,092    | 17                           | 181,568    | 876,890    | 228                  | 3            | 31,437    | 0         | 1,137,045                   |
| West Virginia             | 89,260            | 2,069     | 5,211                        | 67,554     | 249,635    | 0                    | 0            | 162       | 8         | 413,899                     |
| <b>East South Central</b> | 86,532            | 14,713    | 145,666                      | 1,245,121  | 2,149,006  | 13,306               | 2            | 15,711    | 15,301    | 3,685,358                   |
| Alabama                   | 53,858            | 8,828     | 113,201                      | 274,429    | 579,176    | 334                  | 0            | 1,229     | 5,313     | 1,036,368                   |
| Kentucky                  | 29,614            | 2,855     | 12,177                       | 264,774    | 497,615    | 11,179               | 0            | 11,584    | 2,608     | 832,406                     |
| Mississippi               | 85                | 342       | 6,218                        | 305,292    | 251,136    | 1                    | 0            | 190       | 0         | 563,264                     |
| Tennessee                 | 2,975             | 2,688     | 14,070                       | 400,626    | 821,079    | 1,792                | 2            | 2,708     | 7,380     | 1,253,320                   |
| <b>West South Central</b> | 637,339           | 118,641   | 85,505                       | 2,449,694  | 3,556,574  | 2,059                | 0            | 8,393     | 159,437   | 7,017,642                   |
| Arkansas                  | 24,745            | 30,554    | 25,224                       | 242,871    | 347,867    | 0                    | 0            | 0         | 872       | 672,133                     |
| Louisiana                 | 10                | 75,552    | 11,521                       | 563,205    | 288,472    | 1,187                | 0            | 7,777     | 523       | 948,247                     |
| Oklahoma                  | 41,722            | 2,991     | 23,749                       | 468,783    | 664,314    | 130                  | 0            | 0         | 1,221     | 1,202,910                   |
| Texas                     | 570,862           | 9,544     | 25,011                       | 1,174,835  | 2,255,921  | 742                  | 0            | 616       | 156,821   | 4,194,352                   |
| <b>Mountain</b>           | 29,319            | 4,474     | 92,574                       | 1,428,603  | 3,803,613  | 0                    | 0            | 0         | 573       | 5,359,156                   |
| Arizona                   | 0                 | 0         | 17,505                       | 209,673    | 955,133    | 0                    | 0            | 0         | 0         | 1,182,311                   |
| Colorado                  | 24,668            | 0         | 1,418                        | 528,451    | 842,923    | 0                    | 0            | 0         | 0         | 1,397,460                   |
| Idaho                     | 0                 | 0         | 0                            | 101,522    | 269,625    | 0                    | 0            | 0         | 569       | 371,716                     |
| Montana                   | 812               | 295       | 17                           | 117,527    | 160,958    | 0                    | 0            | 0         | 0         | 279,609                     |
| Nevada                    | 0                 | 0         | 109                          | 33,135     | 606,935    | 0                    | 0            | 0         | 0         | 640,179                     |
| New Mexico                | 0                 | 603       | 72,568                       | 210,197    | 308,550    | 0                    | 0            | 0         | 0         | 591,918                     |
| Utah                      | 0                 | 0         | 0                            | 151,378    | 582,033    | 0                    | 0            | 0         | 0         | 733,411                     |
| Wyoming                   | 3,839             | 3,576     | 957                          | 76,720     | 77,456     | 0                    | 0            | 0         | 4         | 162,552                     |
| <b>Pacific</b>            | 50,719            | 1,026,720 | 3,498                        | 2,938,686  | 6,350,147  | 1,292                | 0            | 86,746    | 3,613     | 10,461,421                  |
| Alaska                    | 37                | 0         | 44                           | 19,061     | 91,490     | 0                    | 0            | 1,572     | 0         | 112,204                     |
| California                | 18,482            | 1,025,745 | 21                           | 2,319,780  | 4,960,781  | 1,292                | 0            | 84,793    | 0         | 8,410,894                   |
| Hawaii                    | 8,697             | 0         | 0                            | 6,190      | 18,405     | 0                    | 0            | 48        | 2,868     | 36,208                      |
| Oregon                    | 1,350             | 0         | 963                          | 260,442    | 464,701    | 0                    | 0            | 0         | 0         | 727,456                     |
| Washington                | 22,153            | 975       | 2,470                        | 333,213    | 814,770    | 0                    | 0            | 333       | 745       | 1,174,659                   |

Miles of Main by Material and Diameter are available by Company to AGA Members companies through the eGus Data System. (www.aga.org/eGus).

**Chart 5 - 2**  
**2006 U.S. Number of Services, By Material**

